

Page 1

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

ENTRY

TOTAL

SESSION

FULL ESTIMATED-COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 11:13:05 ON 20 DEC 2005

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 19 DEC 2005 HIGHEST RN 870234-75-6

DICTIONARY FILE UPDATES: 19 DEC 2005 HIGHEST RN 870234-75-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> e apc/cn 5

E1 1 APBE-LIKE LIPOPROTEIN (PSEUDOMONAS SYRINGAE SYRINGAE STRAIN B728A)/CN
E2 1 APBE/NOSX FAMILY PROTEIN (DEHALOCOCCOIDEA ETHENOGENES STRAIN 195)/CN
E3 7 --> APC/CN
E4 1 APC (ACCELERATOR)/CN
E5 1 APC (ADENOMATOUS POLYPOSIS COLI) PROTEIN (DROSOPHILA B CATENIN-BINDING DOMAIN-CONTAINING FRAGMENT)/CN

=> e

E6 1 APC (ADENOMATOUS POLYPOSIS COLI) PROTEIN (DROSOPHILA N-TERMINAL FRAGMENT)/CN
E7 1 APC (ADENOMATOUS POLYPOSIS COLI) PROTEIN (DROSOPHILA)/CN
E8 1 APC (CAENORHABDITIS ELEGANS GENE EMB-27 SUBUNIT 6)/CN
E9 1 APC (PESTICIDE)/CN
E10 1 APC (PHARMACEUTICAL)/CN
E11 1 APC 0576/CN

Prepared by: Mary Hale @2-2507 Rem Bldg 1D86

Humphrey
09/522716

E12 1 APC 1/CN
 E13 1 APC 10/CN
 E14 1 APC 10273/CN
 E15 1 APC 10302/CN
 E16 1 APC 10655/CN
 E17 1 APC 10656/CN

=> e antigen presenting cell/cn 5

E1 1 ANTIGEN PRESENTATION PROTEIN SPAN (SALMONELLA ENTERICA TYPHI STRAIN TY2 GENE SPAN)/CN
 E2 1 ANTIGEN PRESENTATION PROTEIN SPAO (SALMONELLA ENTERICA TYPHI STRAIN TY2 GENE SPAO)/CN
 E3 0 --> ANTIGEN PRESENTING CELL/CN
 E4 1 ANTIGEN PRESENTING CELL LECTIN-LIKE RECEPTOR A1 (MOUSE STRAIN BALB/C GENE APLRA1)/CN
 E5 1 ANTIGEN PRESENTING CELL LECTIN-LIKE RECEPTOR A1 (RAT STRAIN PVG GENE APLRA1)/CN

=> e

E6 1 ANTIGEN PRESENTING CELL LECTIN-LIKE RECEPTOR A2 (MOUSE STRAIN BALB/C GENE APLRA2)/CN
 E7 1 ANTIGEN PRO1868 (HUMAN)/CN
 E8 1 ANTIGEN PRO245 (HUMAN CLONE 35638)/CN
 E9 1 ANTIGEN PRO245 (HUMAN CLONE DNA35638)/CN
 E10 1 ANTIGEN PRO301 (HUMAN CLONE 40628)/CN
 E11 1 ANTIGEN PRO301 (HUMAN CLONE DNA40628 PRECURSOR)/CN
 E12 1 ANTIGEN PRO301 (HUMAN CLONE DNA40628)/CN
 E13 1 ANTIGEN PRO339 (HUMAN CLONE DNA43466-1225 TUMOR-ASSOCIATED)/CN
 E14 1 ANTIGEN PRO362 (HUMAN CLONE 45416 305-AMINO ACID FRAGMENT)/CN
 E15 1 ANTIGEN PRO362 (HUMAN CLONE 45416 321-AMINO ACID FRAGMENT)/CN
 E16 1 ANTIGEN PRO362 (HUMAN CLONE 45416 399-AMINO ACID FRAGMENT)/CN
 E17 1 ANTIGEN PRO362 (HUMAN CLONE DNA45416)/CN

=> s e4-e6

L1 3 "ANTIGEN PRESENTING CELL LECTIN-LIKE RECEPTOR A1 (MOUSE STRAIN BALB/C GENE APLRA1)"/CN
 1 "ANTIGEN PRESENTING CELL LECTIN-LIKE RECEPTOR A1 (RAT STRAIN PVG GENE APLRA1)"/CN
 1 "ANTIGEN PRESENTING CELL LECTIN-LIKE RECEPTOR A2 (MOUSE STRAIN BALB/C GENE APLRA2)"/CN
 3 ("ANTIGEN PRESENTING CELL LECTIN-LIKE RECEPTOR A1 (MOUSE STRAIN BALB/C GENE APLRA1)"/CN OR "ANTIGEN PRESENTING CELL LECTIN-LIKE RECEPTOR A1 (RAT STRAIN PVG GENE APLRA1)"/CN OR "ANTIGEN PRESENTING CELL LECTIN-LIKE RECEPTOR A2 (MOUSE STRAIN BALB/C GENE APLRA2)"/CN)

=> e class i/cn 5

E1 1 CLASS D BETA-LACTAMASE (CAMPYLOBACTER JEJUNI GENE CAM1)/CN
 E2 1 CLASS H TETRACYCLINE RESISTANCE EFFLUX PROTEIN (METHANOSARCINA ACETIVORANS STRAIN C2A GENE MA0169)/CN
 E3 0 --> CLASS I/CN
 E4 1 CLASS I (YERSINIA PESTIS STRAIN CO92 GENE YPO3335)/CN
 E5 1 CLASS I B-LACTAMASE/CN

=> e mhc class i/cn 5

E1 1 MHC ANTIGEN (XIPHOPHORUS MACULATUS STRAIN JP-163-A GENE DXB*

```

01 CLASS II B-CHAIN)/CN
E2      1      MHC B COMPLEX PROTEIN 12.3 (HUMAN CELL LINE JY GENE H12-3)/C
N
E3      0 --> MHC CLASS I/CN
E4      1      MHC CLASS I (GADUS MORHUA SPLEEN CLONE C28 GENE GAMR-UA-C28
PRECURSOR)/CN
E5      1      MHC CLASS I (GORILLA GORILLA GENE GOGO-B*0301 PRECURSOR)/CN

=> e
E6      1      MHC CLASS I (GORILLA GORILLA GENE GOGO-B*0401 PRECURSOR FRAG
MENT)/CN
E7      1      MHC CLASS I (GORILLA GORILLA GENE GOGO-B*0501 PRECURSOR FRAG
MENT)/CN
E8      1      MHC CLASS I (GORILLA GORILLA GENE GOGO-B*0502 PRECURSOR FRAG
MENT)/CN
E9      1      MHC CLASS I (GORILLA GORILLA GENE GOGO-C*0103 PRECURSOR FRAG
MENT)/CN
E10     1      MHC CLASS I (GORILLA GORILLA GENE GOGO-C*0204 PRECURSOR FRAG
MENT)/CN
E11     1      MHC CLASS I (HYPOPHTHALMICHTHYS MOLITRIX A2-DOMAIN FRA
GMENT)/CN
E12     1      MHC CLASS I ALPHA CHAIN (ICTALURUS PUNCTATUS CLONAL B LINE 1
B10 CELL GENE ICPU-UAA)/CN
E13     1      MHC CLASS I ALPHA CHAIN (ICTALURUS PUNCTATUS CLONAL B LINE 1
B10 CELL GENE ICPU-UBA*01)/CN
E14     1      MHC CLASS I ALPHA CHAIN (ICTALURUS PUNCTATUS CLONAL B LINE 1
B10 CELL GENE ICPU-UBA*02)/CN
E15     1      MHC CLASS I ALPHA CHAIN (ICTALURUS PUNCTATUS CLONAL B LINE 1
B10 CELL GENE ICPU-UCA N-TERMINAL FRAGMENT)/CN
E16     1      MHC CLASS I ANTIGEN (ACROCEPHALUS ARUNDINACEUS STRAIN ACARU*
UA-23 FRAGMENT)/CN
E17     9      MHC CLASS I ANTIGEN (ACROCEPHALUS SECHELLENSIS STRAIN COUNTR
Y-SEYCHELLES FRAGMENT)/CN

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```

=> s mhc class i ?/cn
L2      306 MHC CLASS I ?/CN

```

```

=> s mhc class ii ?/cn
L3      583 MHC CLASS II ?/CN

```

```

=> s (interleukin ? or chemokine? or tumor necrosis factor or granulocyte macrophage
colony stimulating factor or granulocyte colony stimulating factor or interferon ?
or cytokine?)/cn

```

```

4518 INTERLEUKIN ?/CN
932 CHEMOKINE?/CN
1 TUMOR NECROSIS FACTOR/CN
0 GRANULOCYTE MACROPHAGE COLONY STIMULATING FACTOR/CN
0 GRANULOCYTE COLONY STIMULATING FACTOR/CN
2048 INTERFERON ?/CN
1026 CYTOKINE?/CN
L4      8410 (INTERLEUKIN ? OR CHEMOKINE? OR TUMOR NECROSIS FACTOR OR GRANULO
CYE MACROPHAGE COLONY STIMULATING FACTOR OR GRANULOCYTE COLONY
STIMULATING FACTOR OR INTERFERON ? OR CYTOKINE?)/CN

```

```

=> s (fibroblast or macrophage or b cell or dendritic cell?/cn
UNMATCHED LEFT PARENTHESIS '(FIBROBLAST'
The number of right parentheses in a query must be equal to the
number of left parentheses.

```

```

=> s (fibroblast or macrophage or b cell or dendritic cell?)/cn

```

UNMATCHED LEFT PARENTHESIS '(FIBROBLAST'

The number of right parentheses in a query must be equal to the number of left parentheses.

```
=> s (fibroblast or macrophage or b cell or dendritic cell?)/cn
      0 FIBROBLAST/CN
      0 MACROPHAGE/CN
      0 B CELL/CN
      22 DENDRITIC CELL?/CN
L5      22 (FIBROBLAST OR MACROPHAGE OR B CELL OR DENDRITIC CELL?)/CN
```

```
=> fil medl,biosis,embase,caplus
COST IN U.S. DOLLARS
```

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
| 76.18 | 76.39 |

FULL ESTIMATED COST

FILE 'MEDLINE' ENTERED AT 11:16:27 ON 20 DEC 2005

FILE 'BIOSIS' ENTERED AT 11:16:27 ON 20 DEC 2005
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```
=> s apc or antigen presenting cell or l1 or l5 or fibroblast or macrophage or b
cell or dendritic cell?
L6      366711 FILE MEDLINE
L7      427603 FILE BIOSIS
L8      331907 FILE EMBASE
L9      303963 FILE CAPLUS
```

TOTAL FOR ALL FILES

```
L10      1430184 APC OR ANTIGEN PRESENTING CELL OR L1 OR L5 OR FIBROBLAST OR
MACROPHAGE OR B CELL OR DENDRITIC CELL?
```

```
=> s l10 or accessory cell?(a)immunologic or cell?(a)immunologic accessory or
antigen presentation or histocompatibility antigen? class ii or lymphocyte
activation or lymphocyte transform? or t lymphocytes or antigen?(a)immune response
or antigenic determin?
```

```
L11      533755 FILE MEDLINE
L12      480408 FILE BIOSIS
L13      403462 FILE EMBASE
L14      349262 FILE CAPLUS
```

TOTAL FOR ALL FILES

```
L15      1766887 L10 OR ACCESSORY CELL?(A) IMMUNOLOGIC OR CELL?(A) IMMUNOLOGIC
ACCESSORY OR ANTIGEN PRESENTATION OR HISTOCOMPATIBILITY ANTIGEN?
CLASS II OR LYMPHOCYTE ACTIVATION OR LYMPHOCYTE TRANSFORM? OR
T LYMPHOCYTES OR ANTIGEN?(A) IMMUNE RESPONSE OR ANTIGENIC DETERM
IN?
```

```
=> s (class i or class ii) (2a) (genes or mhc) or genes(a) (h2 or h-2 or hla) or (he
or hla) (a)antigens or major histocompatibility complex or genes(a)immune response
or ir genes or mhc class ii genes or hla class ii
L16      67285 FILE MEDLINE
```

Page 5

L17 60023 FILE BIOSIS
L18 47356 FILE EMBASE
L19 50140 FILE CAPLUS

TOTAL FOR ALL FILES

L20 224804 (CLASS I OR CLASS II) (2A) (GENES OR MHC) OR GENES(A) (H2 OR H-2
OR HLA) OR (HE OR HLA) (A) ANTIGENS OR MAJOR HISTOCOMPATIBILITY
COMPLEX OR GENES(A) IMMUNE RESPONSE OR IR GENES OR MHC CLASS II
GENES OR HLA CLASS II

=> s l20 or l2 or l3

L21 67285 FILE MEDLINE
L22 60023 FILE BIOSIS
L23 47356 FILE EMBASE
L24 50162 FILE CAPLUS

TOTAL FOR ALL FILES

L25 224826 L20 OR L2 OR L3

=> s l4 or interleukin? or cytokine? or interferon? or (tumor or
tumour) (w) necrosis (w) factor or granulocyte macrophage colony stimulat? factor or
granulocyte colony stimulat? factor or autocrine motility factor or chemokines or
growth substance? or hepatocyte growth factor or lymphokines?

L26 348739 FILE MEDLINE
L27 427625 FILE BIOSIS
L28 367952 FILE EMBASE
L29 342575 FILE CAPLUS

TOTAL FOR ALL FILES

L30 1486891 L4 OR INTERLEUKIN? OR CYTOKINE? OR INTERFERON? OR (TUMOR OR
TUMOUR) (W) NECROSIS (W) FACTOR OR GRANULOCYTE MACROPHAGE COLONY
STIMULAT? FACTOR OR GRANULOCYTE COLONY STIMULAT? FACTOR OR AUTOC
RINE MOTILITY FACTOR OR CHEMOKINES OR GROWTH SUBSTANCE? OR HEPAT
OCYTE GROWTH FACTOR OR LYMPHOKINES?

=> s l30 or monokines?

L31 348948 FILE MEDLINE
L32 427724 FILE BIOSIS
L33 368013 FILE EMBASE
L34 342623 FILE CAPLUS

TOTAL FOR ALL FILES

L35 1487308 L30 OR MONOKINES?

=> s melanoma or lymphoma or plasmacytoma or sarcoma or glioma or thymoma or
leukemias or (breast or prostate or colon or esophageal or brain or lung or ovar?
or cervica?) (w) cancer or hepato?

L36 618437 FILE MEDLINE
L37 623132 FILE BIOSIS
L38 572339 FILE EMBASE
L39 318636 FILE CAPLUS

TOTAL FOR ALL FILES

L40 2132544 MELANOMA OR LYMPHOMA OR PLASMACYTOMA OR SARCOMA OR GLIOMA OR
THYMOMA OR LEUKEMIAS OR (BREAST OR PROSTATE OR COLON OR ESOPHAGE
AL OR BRAIN OR LUNG OR OVAR? OR CERVICA?) (W) CANCER OR HEPATO?

=> s l15 and l25 and l35 and l40

L41 1119 FILE MEDLINE

L42 724 FILE BIOSIS
L43 869 FILE EMBASE
L44 1305 FILE CAPLUS

TOTAL FOR ALL FILES

L45 4017 L15 AND L25 AND L35 AND L40

=> s (treat? or inhibit? or therap? or prevent?) and l45

L50 743 FILE MEDLINE
L51 454 FILE BIOSIS
L52 580 FILE EMBASE
L53 911 FILE CAPLUS

TOTAL FOR ALL FILES

L54 2688 (TREAT? OR INHIBIT? OR THERAP? OR PREVENT?) AND L45

=> s human and dna(10a)shear? and l54

L55 0 FILE MEDLINE
L56 1 FILE BIOSIS
L57 0 FILE EMBASE
L58 0 FILE CAPLUS

TOTAL FOR ALL FILES

L59 1 HUMAN AND DNA(10A) SHEAR? AND L54

=> d ibib abs

L59 ANSWER 1 OF 1 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 2000:458590 BIOSIS

DOCUMENT NUMBER: PREV200000458590

TITLE: Cancer **therapy** with DNA-based vaccines.

AUTHOR(S): Cohen, Edward P. [Reprint author]

CORPORATE SOURCE: Department of Microbiology and Immunology, University of
Illinois College of Medicine, 835 South Wolcott Avenue,
Chicago, IL, 60612, USA

SOURCE: Immunology Letters, (September 15, 2000) Vol. 74, No. 1,
pp. 59-65. print.

CODEN: IMLED6. ISSN: 0165-2478.

DOCUMENT TYPE: Article

LANGUAGE: English

ENTRY DATE: Entered STN: 25 Oct 2000

Last Updated on STN: 10 Jan 2002

AB The development of DNA-based vaccines arises from the knowledge that weakly immunogenic, tumor-associated antigens (TAAs), the products of mutant or dysregulated genes in the malignant cells, are expressed in a highly immunogenic form by **antigen presenting cells**. We successfully prepared vaccines that were effective in the **treatment** of cancer in mice by transfection of DNA from **breast cancer** cells into a mouse **fibroblast** cell line (LM). **Fibroblasts** express **MHC class I**-determinants along with B7.1, a co stimulatory molecule. (Classic studies indicate that transfection of genomic DNA can stably alter both the genotype and the phenotype of the cells that take-up the exogenous DNA.) The **fibroblasts** were transfected with **sheared**, unfractionated genomic **DNA** from a breast adenocarcinoma that arose spontaneously in a C3H/He mouse (H-2k). To increase their non-specific immunogenic properties, the **fibroblasts** were modified before transfection to express allogeneic MHC-determinants (H-2Kb) and to secrete IL-2. Afterward, the IL-2-secreting semi allogeneic cells were co transfected with DNA from the

spontaneous breast neoplasm, along with a plasmid (pHyg) conferring resistance to hygromycin. Pooled colonies of hygromycin-resistant cells were then tested in C3H/He mice for their immunotherapeutic properties against the growth of the breast neoplasm. The results indicated that tumor-bearing mice immunized with the transfected cells survived significantly longer than mice in various control groups. Similar beneficial effects were seen in C57BL/6 mice injected with a syngeneic melanoma cells and semi allogeneic, IL-2-secreting fibroblasts transfected with DNA from the melanoma cells. The immunity was mediated by CD8+ T cells and was specific for the type to tumor from which the DNA was obtained.

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

799.91

876.30

FILE 'CAPLUS' ENTERED AT 11:29:49 ON 20 DEC 2005

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FILE COVERS 1907 - 20 Dec 2005 VOL 143 ISS 26

FILE LAST UPDATED: 19 Dec 2005 (20051219/ED)

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<http://www.cas.org/infopolicy.html>

=> s apc or antigen presenting cell or l1 or l5 or fibroblast or macrophage or b cell or dendritic cell?

10196 APC

2183 APCS

11772 APC

(APC OR APCS)

283135 ANTIGEN

226141 ANTIGENS

355792 ANTIGEN

(ANTIGEN OR ANTIGENS)

30493 PRESENTING

1997299 CELL

1756084 CELLS

2652222 CELL

(CELL OR CELLS)

10950 ANTIGEN PRESENTING CELL

(ANTIGEN (W) PRESENTING (W) CELL)

1 L1

35 L5
 85315 FIBROBLAST
 70689 FIBROBLASTS
 113367 FIBROBLAST
 (FIBROBLAST OR FIBROBLASTS)
 90881 MACROPHAGE
 69865 MACROPHAGES
 111211 MACROPHAGE
 (MACROPHAGE OR MACROPHAGES)
 1554940 B
 1997299 CELL
 1756084 CELLS
 2652222 CELL
 (CELL OR CELLS)
 71514 B CELL
 (B (W) CELL)
 45810 DENDRITIC
 6 DENDRITICS
 45811 DENDRITIC
 (DENDRITIC OR DENDRITICS)
 3150824 CELL?
 17172 DENDRITIC CELL?
 (DENDRITIC (W) CELL?)
 L60 303963 APC OR ANTIGEN PRESENTING CELL OR L1 OR L5 OR FIBROBLAST OR
 MACROPHAGE OR B CELL OR DENDRITIC CELL?

=> s melanoma or lymphoma or plasmacytoma or sarcoma or glioma or thymoma or
 leukemias or (breast or prostate or colon or esophageal or brain or lung or ovar?
 or cervica?) (w) cancer or hepato?

29822 MELANOMA
 3259 MELANOMAS
 19 MELANOMATA
 30315 MELANOMA
 (MELANOMA OR MELANOMAS OR MELANOMATA)
 32587 LYMPHOMA
 7880 LYMPHOMAS
 34452 LYMPHOMA
 (LYMPHOMA OR LYMPHOMAS)
 1749 PLASMACYTOMA
 479 PLASMACYTOMAS
 1931 PLASMACYTOMA
 (PLASMACYTOMA OR PLASMACYTOMAS)
 35964 SARCOMA
 4096 SARCOMAS
 100 SARCOMATA
 37586 SARCOMA
 (SARCOMA OR SARCOMAS OR SARCOMATA)
 11332 GLIOMA
 3668 GLIOMAS
 7 GLIOMATA
 12289 GLIOMA
 (GLIOMA OR GLIOMAS OR GLIOMATA)
 1516 THYMOMA
 311 THYMOMAS
 1605 THYMOMA
 (THYMOMA OR THYMOMAS)
 6611 LEUKEMIAS
 65177 BREAST
 542 BREASTS
 65368 BREAST

(BREAST OR BREASTS)
 43974 PROSTATE
 1295 PROSTATES
 44081 PROSTATE
 (PROSTATE OR PROSTATES)
 53644 COLON
 648 COLONS
 1434 COLA
 75 COLAS
 55220 COLON
 (COLON OR COLONS OR COLA OR COLAS)
 8906 ESOPHAGEAL
 3 ESOPHAGEALS
 8906 ESOPHAGEAL
 (ESOPHAGEAL OR ESOPHAGEALS)
 505330 BRAIN
 23531 BRAINS
 507878 BRAIN
 (BRAIN OR BRAINS)
 174975 LUNG
 41865 LUNGS
 188963 LUNG
 (LUNG OR LUNGS)
 127578 OVAR?
 22453 CERVICA?
 264972 CANCER
 38274 CANCERS
 275045 CANCER
 (CANCER OR CANCERS)
 94091 (BREAST OR PROSTATE OR COLON OR ESOPHAGEAL OR BRAIN OR LUNG OR
 OVAR? OR CERVICA?) (W) CANCER
 119515 HEPATO?
 L61 318636 MELANOMA OR LYMPHOMA OR PLASMACYTOMA OR SARCOMA OR GLIOMA OR
 THYMOMA OR LEUKEMIAS OR (BREAST OR PROSTATE OR COLON OR ESOPHAGE
 AL OR BRAIN OR LUNG OR OVAR? OR CERVICA?) (W) CANCER OR HEPATO?
 95% OF LIMIT FOR TOTAL ANSWERS REACHED

=> s 134 and 161 and 160
 L62 11199 L34 AND L61 AND L60

=> s 119 and 162
 L63 1026 L19 AND L62

=> s 163 and pd<jan 1997
 18160606 PD<JAN 1997
 (PD<19970100.)
 L64 216 L63 AND PD<JAN 1997

=> s cohen e?/au
 L65 1794 COHEN E?/AU

=> s 164 not 165
 L66 211 L64 NOT L65

=> s 164 and 165
 L67 5 L64 AND L65

=> s 167 not 159
 L68 5 L67 NOT L58